

## ABSTRACT OF THE DISCLOSURE

Apparatus and method for processing crude oil, or oil-base or water-base liquid waste into a clean burning gas, called magnegas, via a submerged electric arc between at least one pair of consumable electrodes, which have a geometry permitting the operation for at least one month prior to their replacement, are completely contained inside a pressurized vessel, and have copper holders that are placed at a minimal possible mutual distance so as to minimize the power loss in the propagation of electricity through the electrodes, while having the other dimensions essentially unrestricted to maximize life. The invention is complemented with three optional recirculating flows substantially through the electric arc: i) a flow of the produced combustible gas; ii) a flow of the liquid feedstock; and iii) a flow of a liquid additive rich in a substance missing in the liquid feedstock for the production of the combustible gas with desired features.